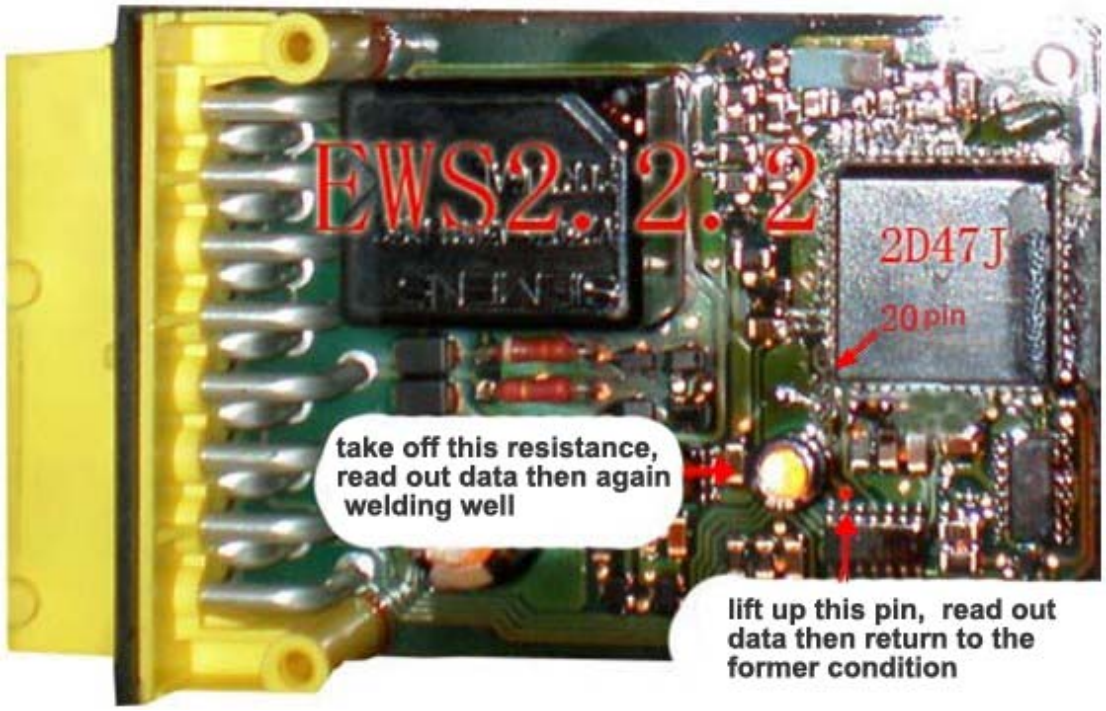
BMW Key Programmer user manual

1. Handle EWS, firstly disconnect CPU 20pin with circuit board, please refer to the following pictures.


EWS2. 2.2
2D47J
20pin
take off this resistance, read out data then again welding well
lift up this pin, read out data then return to the former condition

Then, handle well every pin of CPU, correctly put the IC socket

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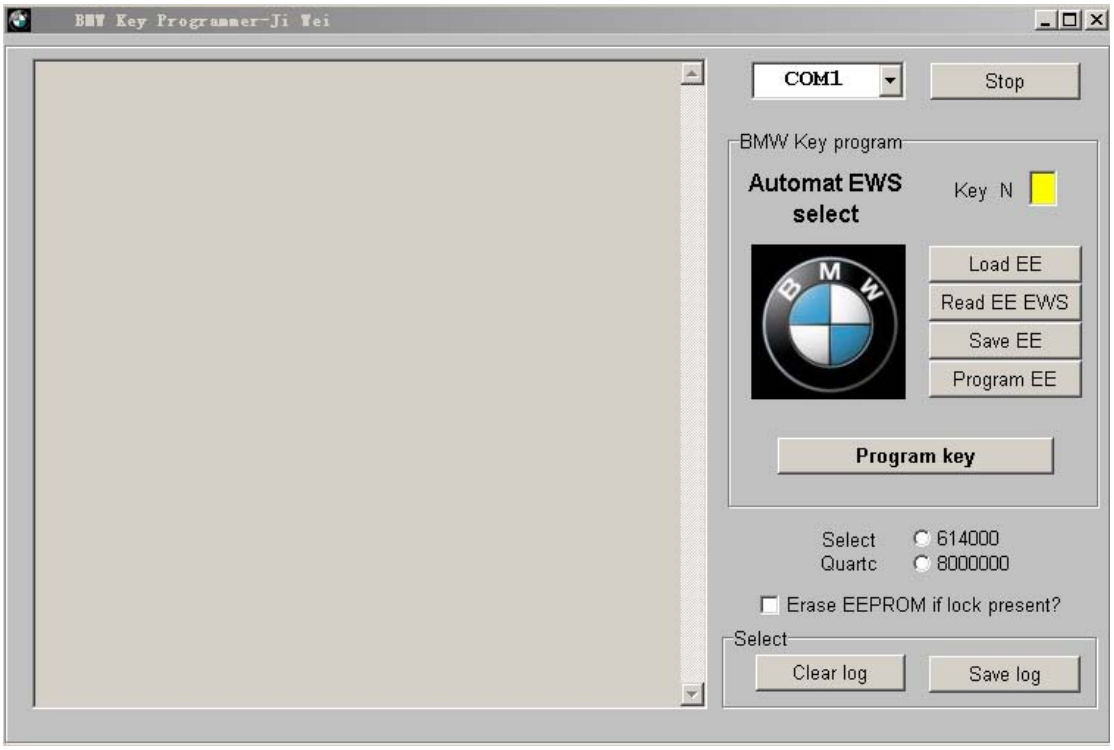
of BMW Key Programmer on 68HC11EA9 CPU. BMW Key Programmer support directly read out data and program key for EWS2 2D47J, EWS3 0D46J and EWS3+ 0D46J.

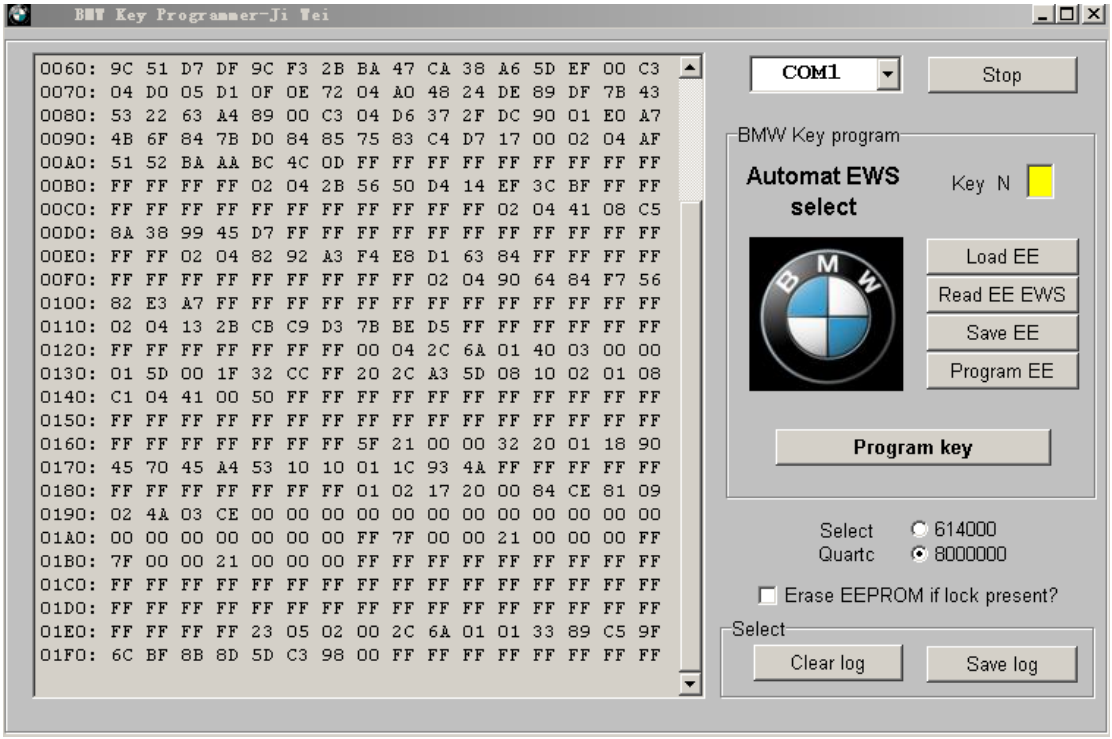
Plus, as for a small part of rare EWS2 1D47J and EWS3 2D47J, it needs related programmer to read out data, then to program key. (IMPORTANT NOTE: make sure not use BMW key programmer to read out the data of EWS3 2D47J)

2. Connect BMW KEY PROGRAMMER with computer, open operation software, as follows:



3. Click to choose Quartc, select 614000 to read EWS2 2D47J; select 8000000 to read EWS3 0D46J and EWS3+ 0D46J.

4. Click Read EE EWS, then display EWS data that was read out, see the following picture.


BMW Key Programmer-Ji Wei
0060: 9C 51 D7 DF 9C F3 2B BA 47 CA 38 A6 5D EF 00 C3
0070: 04 D0 05 D1 0F 0E 72 04 A0 48 24 DE 89 DF 7B 43
0080: 53 22 63 A4 89 00 C3 04 D6 37 2F DC 90 01 E0 A7
0090: 4B 6F 84 7B D0 84 85 75 83 C4 D7 17 00 02 04 AF
00A0: 51 52 BA AA BC 4C 0D FF FF FF FF FF FF FF FF FF
00B0: FF FF FF FF 02 04 2B 56 50 D4 14 EF 3C BF FF FF
00C0: FF FF FF FF FF FF FF FF FF FF FF 02 04 41 08 C5
00D0: 8A 38 99 45 D7 FF FF FF FF FF FF FF FF FF FF FF
00E0: FF FF 02 04 82 92 A3 F4 E8 D1 63 84 FF FF FF FF
00F0: FF FF FF FF FF FF FF FF FF 02 04 90 64 84 F7 56
0100: 82 E3 A7 FF FF FF FF FF FF FF FF FF FF FF FF FF
0110: 02 04 13 2B CB C9 D3 7B BE D5 FF FF FF FF FF FF
0120: FF FF FF FF FF FF FF 00 04 2C 6A 01 40 03 00 00
0130: 01 5D 00 1F 32 CC FF 20 2C A3 5D 08 10 02 01 08
0140: C1 04 41 00 50 FF FF FF FF FF FF FF FF FF FF FF
0150: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0160: FF FF FF FF FF FF FF 5F 21 00 00 32 20 01 18 90
0170: 45 70 45 A4 53 10 10 01 1C 93 4A FF FF FF FF FF
0180: FF FF FF FF FF FF FF 01 02 17 20 00 84 CE 81 09
0190: 02 4A 03 CE 00 00 00 00 00 00 00 00 00 00 00 00
01A0: 00 00 00 00 00 00 00 FF 7F 00 00 21 00 00 00 FF
01B0: 7F 00 00 21 00 00 00 FF FF FF FF FF FF FF FF FF
01C0: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
01D0: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
01E0: FF FF FF FF 23 05 02 00 2C 6A 01 01 33 89 C5 9F
01F0: 6C BF 8B 8D 5D C3 98 00 FF FF FF FF FF FF FF FF
COM1
Stop
BMW Key program
Automat EWS select
Key N
Load EE
Read EE EWS
Save EE
Program EE
Program key
Select
Quartc
614000
8000000
Erase EEPROM if lock present?
Select
Clear log
Save log

5. Click Save EE

6. Enter key position into Key N (From 0-9, it's 10 keys in total, if you don't want to erase the original car key, please enter the key from 3-9)

7. Put key or chip (PCF7930, 7931, 7935) into BMW KEY PROGRAMMER key keyhole, see the picture as follows:

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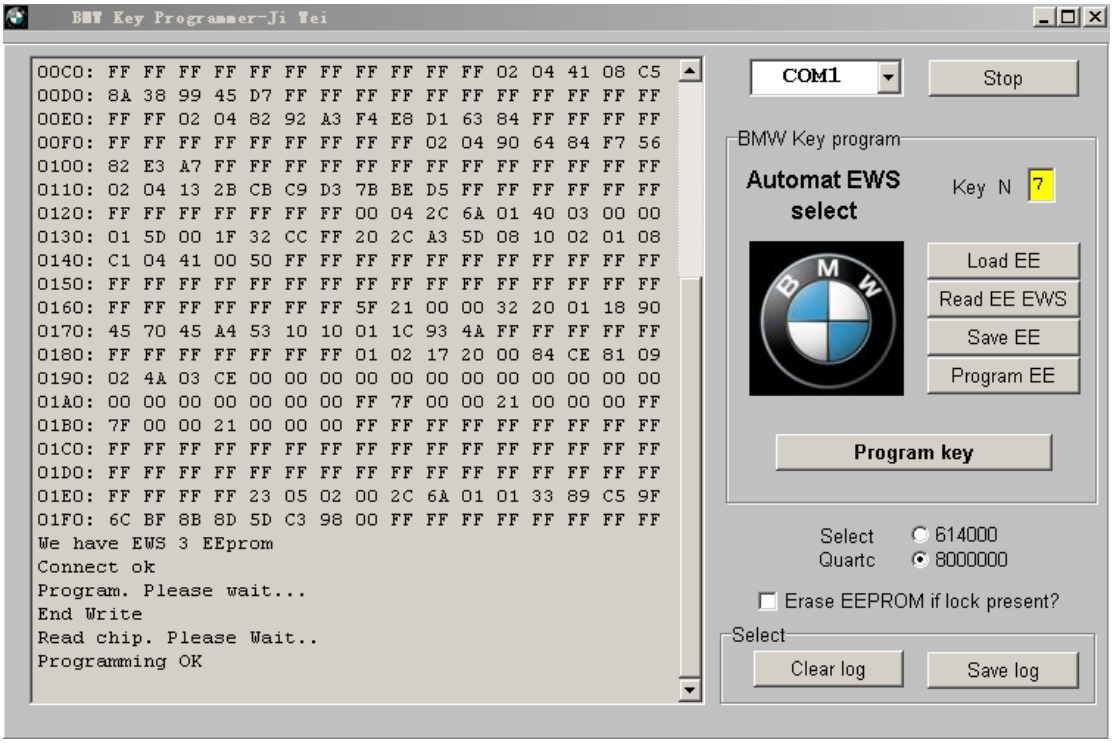
8. Click Program key to program key, it usually cost 30 seconds.

9. Programming OK Displays, once key is successfully programmed.


BMW Key Programmer-Ji Wei
00C0: FF FF FF FF FF FF FF FF FF FF FF FF 02 04 41 08 C5
00D0: 8A 38 99 45 D7 FF FF FF FF FF FF FF FF FF FF FF
00E0: FF FF 02 04 82 92 A3 F4 E8 D1 63 84 FF FF FF FF
00F0: FF FF FF FF FF FF FF FF FF FF 02 04 90 64 84 F7 56
0100: 82 E3 A7 FF FF FF FF FF FF FF FF FF FF FF FF FF
0110: 02 04 13 2B CB C9 D3 7B BE D5 FF FF FF FF FF FF
0120: FF FF FF FF FF FF FF 00 04 2C 6A 01 40 03 00 00
0130: 01 5D 00 1F 32 CC FF 20 2C A3 5D 08 10 02 01 08
0140: C1 04 41 00 50 FF FF FF FF FF FF FF FF FF FF FF
0150: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
0160: FF FF FF FF FF FF FF 5F 21 00 00 32 20 01 18 90
0170: 45 70 45 A4 53 10 10 01 1C 93 4A FF FF FF FF FF
0180: FF FF FF FF FF FF FF 01 02 17 20 00 84 CE 81 09
0190: 02 4A 03 CE 00 00 00 00 00 00 00 00 00 00 00 00
01A0: 00 00 00 00 00 00 00 FF 7F 00 00 21 00 00 00 FF
01B0: 7F 00 00 21 00 00 00 FF FF FF FF FF FF FF FF FF
01C0: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
01D0: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
01E0: FF FF FF FF 23 05 02 00 2C 6A 01 01 33 89 C5 9F
01F0: 6C BF 8B 8D 5D C3 98 00 FF FF FF FF FF FF FF FF
We have EWS 3 EEprom
Connect ok
Program. Please wait...
End Write
Read chip. Please Wait..
Programming OK
COM1
Stop
BMW Key program
Automat EWS select
Key N
7
Load EE
Read EE EWS
Save EE
Program EE
Program key
Select Quartc
614000
8000000
Erase EEPROM if lock present?
Select
Clear log
Save log

10. Welding well CPU 20PIN with circuit board

11. Put EWS into the car, use the cloned key to turn on ignition, do not start, wait about 20 seconds, turn off ignition, don't take out key, restart, now all is ok!